

Constantin Daniel Negut

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

430
citations

687220

13
h-index

752573

20
g-index

43
all docs

43
docs citations

43
times ranked

393
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative Measurement of $\hat{\Gamma}^3$ -Ray and e-Beam Effects on Fiber Rayleigh Scattering Coefficient. Photonic Sensors, 2021, 11, 298.	2.5	1
2	Low Doses of Gamma Irradiation Stimulate Synthesis of Bioactive Compounds with Antioxidant Activity in Fomes fomentarius Living Mycelium. Applied Sciences (Switzerland), 2021, 11, 4236.	1.3	6
3	The use of gamma irradiation to stimulate bioactive compound synthesis in <i>Inonotus obliquus</i> submerged cultures. Nukleonika, 2021, 66, 83-90.	0.3	1
4	Comparative Study of $\hat{\Gamma}^3$ - and e-Radiation-Induced Effects on FBGs Using Different Femtosecond Laser Inscription Methods. Sensors, 2021, 21, 8379.	2.1	6
5	A New Setup for Real-Time Investigations of Optical Fiber Sensors Subjected to Gamma-Rays: Case Study on Long Period Gratings. Sensors, 2020, 20, 4129.	2.1	3
6	Ionizing Radiation Effect upon Er/Yb Co-Doped Fibre Made by In-Situ Nano Solution Doping. Journal of Lightwave Technology, 2020, 38, 6334-6344.	2.7	2
7	Gamma Radiation-Induced Effects over an Optical Fiber Laser: Towards New Sensing Applications. Sensors, 2020, 20, 3017.	2.1	7
8	Comparative Investigation of Gamma Radiation Effects on Long Period Gratings and Optical Power in Different Optical Fibers. Journal of Lightwave Technology, 2019, 37, 4560-4566.	2.7	26
9	A new approach: Synthesis of cobalt aluminate nanoparticles using tamarind fruit extract. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 246, 42-48.	1.7	30
10	Mn ²⁺ EPR spectroscopy for the provenance study of natural carbonates. Experimental Methods in the Physical Sciences, 2019, 50, 1-19.	0.1	2
11	Response of long period gratings to gamma and neutron-gamma radiations. , 2019, , .		1
12	Long Period Gratings in unconventional fibers for possible use as radiation dosimeter in high-dose applications. Sensors and Actuators A: Physical, 2018, 271, 223-229.	2.0	25
13	Gamma-rays induced color centers in Pb ²⁺ doped CaF ₂ crystals. Radiation Physics and Chemistry, 2018, 153, 70-78.	1.4	4
14	Gamma radiation effects on Long Period Gratings and transmitted power in different optical fibers: towards dosimetry applications. , 2018, , .		3
15	Ionising Radiation Induced Effects on Bismuth/Erbium Co-Doped Optical Fibres. , 2018, , .		1
16	ESR Standard Methods for Detection of Irradiated Food. , 2017, , 1-16.		1
17	Real-time analysis of arc-induced Long Period Gratings under gamma irradiation. Scientific Reports, 2017, 7, 43389.	1.6	35
18	Irradiation free radicals in freshwater crayfish <i>Astacus leptodactylus</i> Esch investigated by EPR spectroscopy. Radiation Physics and Chemistry, 2017, 133, 45-51.	1.4	5

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19	Optical and THz Evaluation of Components for Gas Sensing Spectroscopy in Hazardous Environments. NATO Science for Peace and Security Series B: Physics and Biophysics, 2017, , 63-68.	0.2	1
20	Radiation processing for cultural heritage preservation – Romanian experience. Nukleonika, 2017, 62, 253-260.	0.3	10
21	Chapter 19. Qualification and Certification of Ionizing Radiation Facilities. Food Chemistry, Function and Analysis, 2017, , 383-396.	0.1	0
22	Synthesis and Structural Investigation of New Bio-Relevant Complexes of Lanthanides with 5-Hydroxyflavone: DNA Binding and Protein Interaction Studies. Molecules, 2016, 21, 1737.	1.7	19
23	β irradiation induced effects on bismuth active centres and related photoluminescence properties of Bi/Er co-doped optical fibres. Scientific Reports, 2016, 6, 29827.	1.6	17
24	Gamma radiation influence on silica optical fibers measured by optical backscatter reflectometry and Brillouin sensing technique. Proceedings of SPIE, 2016, , .	0.8	2
25	Long period grating response to gamma radiation. Proceedings of SPIE, 2016, , .	0.8	0
26	Assessment of mid-IR components for spaceborne instrumentation: Radiation tests. , 2016, , .		0
27	Perfluorinated polymer optical fiber for gamma radiation monitoring. Proceedings of SPIE, 2016, , .	0.8	1
28	Online monitoring of gamma irradiated perfluorinated polymer optical fiber. Proceedings of SPIE, 2016, , .	0.8	0
29	Effects of gamma radiation on perfluorinated polymer optical fibers. Optical Materials, 2016, 58, 226-233.	1.7	29
30	Enhanced Gamma Radiation Effect in Bi/Er Co-Doped Optical Fibre by Co-Doping Yb. , 2016, , .		2
31	Comparative study of long period and fiber Bragg gratings under gamma irradiation. Sensors and Actuators A: Physical, 2015, 233, 295-301.	2.0	19
32	Online Tests of an Optical Fiber Long-Period Grating Subjected to Gamma Irradiation. IEEE Photonics Journal, 2014, 6, 1-9.	1.0	17
33	On-line tests of an optical fiber long-period grating subjected to gamma irradiation. , 2014, , .		3
34	Establishing the irradiation dose for paper decontamination. Radiation Physics and Chemistry, 2012, 81, 1045-1050.	1.4	29
35	Irradiation effects on canvas oil painting: Spectroscopic observations. Radiation Physics and Chemistry, 2012, 81, 1595-1599.	1.4	14
36	Detection of irradiated frog (<i>Limnonectes macrodon</i>) leg bones by multifrequency EPR spectroscopy. Food Chemistry, 2012, 135, 2313-2319.	4.2	7

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37	Defects induced by gamma irradiation in historical pigments. Journal of Cultural Heritage, 2012, 13, 397-403.	1.5	29
38	Spectroscopic evaluation of painted layer structural changes induced by gamma radiation in experimental models. Radiation Physics and Chemistry, 2012, 81, 160-167.	1.4	12
39	EPR studies of the free radical kinetics in $\hat{1}^3$ -rays irradiated Pleurotus ostreatus oyster mushrooms. Food Research International, 2011, 44, 1008-1011.	2.9	7
40	EPR investigation of some desiccated Ascomycota and Basidiomycota gamma-irradiated mushrooms. Radiation Physics and Chemistry, 2010, 79, 1275-1278.	1.4	9
41	Thermal desorption/gas chromatography/mass spectrometry approach for characterization of the volatile fraction from amber specimens: A possibility of tracking geological origins. Journal of Chromatography A, 2010, 1217, 1977-1987.	1.8	19
42	Effects of gamma irradiation on the colour of pigments. Proceedings of SPIE, 2007, , .	0.8	8
43	Standardization of $^{68}\text{(Ge+Ga)}$. Applied Radiation and Isotopes, 2004, 60, 429-431.	0.7	17